



Ago'd PCTAPTO 06 MAY 2005

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

A . 1'	<u>, ·                                     </u>	<del> </del>						
Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416							
2021700PC/ko								
International application No.	International filing date (d	iay/monin/year)	Priority date (day/month/year)					
PCT/FI 2002/000877	08.11.2002							
International Patent Classification (IPC) o	r national classification and	I IPC						
H04Q 7/38								
Applicant								
NOKIA CORPORATION et	al							
This report is the international pre Authority under Article 35 and tr			is International Preliminary Examining 36.					
2. This REPORT consists of a total	of 4 sheets,	including this cover	r sheet.					
3. This report is also accompanied b	y ANNEXES, comprising:							
a. (sent to the applicant	t and to the International B	ureau) a total of	sheets, as follows:					
			e been amended and are the basis of this report					
	containing rectifications and containing rectifications and containing the containing rectifications.	thorized by this Au	thority (see Rule 70.16 and Section 607 of the					
sheets which	supersede earlier sheets, bu		rity considers contain an amendment that goes					
beyond the d		al application as file	d, as indicated in item 4 of Box No. I and the					
b. (sent to the Internation	• • • • • • • • • • • • • • • • • • • •		number of electronic carrier(s))					
readable form only,			and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the					
Administrative Instru								
4. This report contains indications r	elating to the following iter	ns:						
Box No. I Basis of	of the report							
Box No. II Priority	y							
Box No. III Non-es	stablishment of opinion wit	h regard to novelty,	inventive step and industrial applicability					
Box No. IV Lack o	f unity of invention							
			o novelty, inventive step or industrial					
	ability; citations and explan n documents cited	ations supporting su	ich statement					
	n defects in the internationa	l application						
ا	n observations on the intern							
Box 10: Viii Certain	, coser various on the man							
Date of submission of the demand	5	Date of completion	of this report					
26.04.2004		19.01.2005	5					
Name and mailing address of the IPEA/SE		Authorized officer	i.					
Patent- och registreringsverket Box 5055			3.					
S-102 42 STOCKHOLM			Karlsson/BS					
Facsimile No. +46 8 667 72 88		Telephone No. +4	6 8 782 25 00					

Form PCT/IPEA/409 (cover sheet) (January 2004)

## INTERNATIONAL PARAMINARY REPORT ON PATENTABILITY

Box	No. I	Basis of the report						
1.	With r	regard to the language, this report is based on the international application in the language vise indicated under this item.	in which it was filed, unless					
		This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:	,					
		international search (under Rules 12.3 and 23.1(b))						
		publication of the international application (under Rule 12.4)						
		international preliminary examination (under Rules 55.2 and/or 55.3)						
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	$\boxtimes$	the international application as originally filed/furnished						
		the description:						
		pages	as originally filed/furnished					
		pages* received by this Authority on pages* received by this Authority on						
	_							
		the claims:	as ariginally filed/firmished					
		P 45-15	as originally filed/furnished					
		pages* as amended (together with an pages* received by this Authority on						
		pages* received by this Authority on						
		the drawings:						
	Ш	-	as originally filed/furnished					
		pages* received by this Authority on	<u> </u>					
		pages* received by this Authority on						
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence	Listing.					
3.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to the sequence listing (specify):	<del> </del>					
4.		This report has been established as if (some of) the amendments annexed to this report made, since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)).	and listed below had not been in the Supplemental Box (Rule					
		the description, pages	<del></del>					
		the claims, Nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):	<del></del>					
		any table(s) related to the sequence listing (specify):	<del> </del>					
•	If ite	em 4 applies, some or all of those sheets may be marked "superseded."						

### INTERNATIONAL PRESSIINARY REPORT ON PATENTABILITY

Internal application No.
PCT/FI 2002/000877

Bo	No. V	Reasoned statement un citations and explanati	nder Article 3 ions supporti	35(2) with regard to novelty, inventive step or industrial applicability; ng such statement	
1.	Statement		Claims Claims	1-16	YES NO
	Invent	tive step (IS)	Claims Claims		YES NO
	Indust	trial applicability (IA)	Claims Claims	1-10	YES NO

#### 2. Citations and explanations (Rule 70.7)

#### The claimed invention

The present invention relates to reducing load in a mobile communication system by selecting and triggering non real-time users to perform cell reselection based on cell load parameter.

The following documents were cited in the International Search Report:

D1: TOLLI A. ET AL.: 'Performance evaluation of common radio resource management (CRRM)', IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, 2002. ICC 2002 vol. 5, 2002, pages 3429 -3433,

D2: US6363252 B1

D1 describes that a non-real-time user is directed to another system (or layer or frequency) by inter-system network controlled cell reselection if the cell throughput is below threshold, (page 3429, column 2).

D2 relates to a method of performing a handover. For a group of potential new base stations, the carrier to interference ratio (abstract) and load factors (column 4 lines 44-55) are calculated with respect to both real-time and non-real-time transmissions.

D3 describes admission or rejection of connections based on the number of connections of each quality class in the cellcluster, (abstract).

. . . / . . .

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box  $\,V\,$ 

#### Reasoned statement

What is claimed in claims 1, 2, 4, 7-9, 11 and 14-16 differs from D1 in the selection of the non-real time users to perform cell selection.

To a person skilled in the art, it is known that some users are selected to perform a cell reselection or a hand-over when the load is high, see D1 page 3430, column 2, paragraph 4.

Accordingly, a person skilled in the art knowing as a starting point that a non-real-time user performs a cell reselection based on high delay, would obviously use the selection of users to reduce load in a present cell meanwhile keep the load in the other cell at an acceptable level.

Therefore, the invention according to claims 1, 2, 4, 7-9, 11 and 14-16 is considered to lack an inventive step.

What is claimed in claims 3, 5, 6, 10, 12 and 13 is considered to show constructional details, which do not involve an inventive step.